

## **Material Safety Data Sheet**

Common Name	Varathane® Liquid Plastic Exterior	Code		Liquid Plastic Exterior
	Wood Finish® - Super Build			Wood Finish® Products 92, 93
	Formula	MSDS#		December 1997
Supplier	The Flecto Company, Inc. 1000 45th Street Oakland, California 94608	TSCA Inver	ntory	All raw materials are listed.
		Validation 1	Date	12/29/97
Synonym	92-02, 93-02 VOC <350 g/l (2.9 lbs/gal)	Print Date		12/29/97
Trade name	Varathane® Liquid Plastic Exterior Wood Finish®			
Material Uses	Use on boats, patio furniture, exteroir doors, etc.	In case of Emergency	800-2	rgency phone: 255-3924 Information Call:
Manufacturer	The Flecto Company, Inc. 1000 45th Street Oakland, California 94608			635-3286

Name	CAS#	% by Weight	TLV/PEL	LC <sub>so</sub> /LD <sub>so</sub>
Mineral Spirits	064742478	<23.0	TWA: 100 (ppm)	Not available.
Light aromatic solvent naphtha (petroleum)	064742956	<15.0	TWA: 50 (ppm) from OSHA	Not available.
Xylene	001330207	<3.0	TWA: 100 CEIL: 150 (ppm) TWA: 435 CEIL; 655 (mg/m³)	ORAL (LD50): Acute: 4300 mg/kg [Rat]. 6100 mg/kg [Rat].
Primary amyl alcohol	000071410	<8.0	Not available.	Not available.
Ethylbenzene	000100414	<0.5	TWA: 100 CEIL: 125 (ppm) TWA: 435 CEIL: 545 (mg/m³)	ORAL (LD50): Acute: 3500 mg/kg [Rat]. DERMAL (LD50): Acute: 5000 mg/kg [Rabbit].
Methyl ethyl ketoxime	000096297	<0.5	Not available.	Not available.

Section 3. Hazard	ls identification		
Emergency Overview	May cause eye irritation. May cause skin irritation. May be harmful or fatal if swallowed.		
Potential Acute Health Effects	Hazardous in case of eye contact, ingestion, and inhalation. Slightly hazardous in case of skin contact.		
Potential Chronic Health Effects	Non-sensitizer for skin. Non-permeator by skin.  CARCINOGENIC EFFECTS: Not available.  MUTAGENIC EFFECTS: Not available.  TERATOGENIC EFFECTS: Not available.  DEVELOPMENTAL TOXICITY: Not available.		
Target Organs:	Not available.		
Routes of Entry	Eye contact. Inhalation, Ingestion.		
Medical Conditions Aggravated by Overexposure:	There is no known effect from chronic exposure to this product. Repeated or prolonged exposure is not known to aggravate medical condition.		
Signs and Symptoms of Overexposure:	Not available.		

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#### Varathane® Liquid Plastic Exterior Wood Finish® - Super Build Formula

Section 4. First A	id Measures	
Eye Contact	Check for and remove any contact lenses. IMMEDIATELY flush eyes with running water for at least 15 minutes, keeping eyelids open. COLD water may be used. DO NOT use an eye ointment. Seek medical attention.	
Skin Contact	Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. particularly careful to clean folds, crevices, creases and groin. COLD water may be used. Co the irritated skin with an emollient. If irritation persists, seek medical attention. Water contaminated clothing before reusing.	
Hazardous Skin Contact	Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek medical attention.	
Inhalation	Allow the victim to rest in a well ventilated area. Seek immediate medical attention.	
Hazardous Inhalation	Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation.	
Ingestion DO NOT induce vomiting. Examine the lips and mouth to ascertain whether the damaged, a possible indication that the toxic material was ingested; the absence of however, is not conclusive. Loosen tight clothing such as a collar, tie, belt or waist victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical		
Hazardous Ingestion	No additional information.	

Section 5. Fire an	d Explosion Data
Flammability of the Product	Combustible.
Auto-Ignition Temperatur	e The lowest known value is 218°C (424.4°F) (Mineral Spirits).
Flash Points	CLOSED CUP: 40.5°C (104.9°F). (Setaflash.),
Flammable Limits	The greatest known range is LOWER: 1.1% UPPER: 6% (Mineral Spirits)
Products of Combustion	These products are carbon oxides (CO, CO2), nitrogen oxides (NO, NO2)
Fire Hazards in Presence o Various Substances	of Flammable in presence of open flames and sparks.
Explosion Hazards in Presence of Various Substances	No danger kπown.
Fire Fighting Media and Instructions	SMALL FIRE: Use DRY chemicals, CO2, water spray or foam.  LARGE FIRE: Use water spray, fog or foam. DO NOT use water jet.
Special Remarks ou Fire Hazards	Combustible.
Special Remarks on Explosion Hazards	No additional remark.

Section 6. A	cidental Release Measures
Small Spill	Mop up, or absorb with an inert DRY material and place in an appropriate waste disposal container.
Large Spill	Combustible material. Keep away from heat. Keep away from sources of ignition. Stop leak if without risk. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

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Section 7.	Handling and Sterage
Handling	After handling, always wash hands thoroughly with soap and water.
Storage	Keep container dry. Ground all equipment containing material. Keep container tightly closed. Keep in a cool, well-ventilated place. Combustible materials should be stored away from extreme heat and away from strong oxidizing agents.

Section 8. Expos	ure Controls	/Personal Pr	otection	
Engineering Controls	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.			
		oor respirator. B Safety glasses.	e sure to use a MSHA approved respirator or equivalent. Gloves	
Personal Protection in Car of a Large Spill	apparatus sho	Splash goggles. Full suit. Vapor respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing migh not be sufficient; consult a specialist BEFORE handling this product.		
Chemical Name or Product Name		CAS#	Exposure Limits	
Mineral Spirits Light aromatic solvent naph Xylene	itha (petroleum)	064742478 064742956 001330207	TWA: 100 (ppm)  TWA: 50 (ppm) from OSHA  TWA: 100 CEIL: 150 (ppm)  TWA: 435 CEIL: 655 (mg/m²)	
Primary amyl alcohol Ethylbenzene		000071410 000100414	Not available. TWA: 100 CEIL: 125 (ppm) TWA: 435 CEIL: 545 (mg/m²)	
Methyl ethyl ketoxime		000096297	Not available.	

Section 9. Physica	l and Chemical Properties	A epit (Chipped), fellose Talifonia (Chipped)	
Physical state and appearance	Liquid.	Odor	Hydrocarbon.
Molecular Weight	Not applicable.	Taste	Not available.
pH (1% soln/water)	Not available.	Color	Light straw.
Boiling/Condensation Point	Weighted average: 151.54°C (304.6	3°F)	
Melting/Sublimation Point	Not available.		
Critical Temperature	Not available.		
Specific Gravity	0.91 (Water = 1)		
Vapor Pressure	Weighted average: 2.65 mm of Hg (@ 20°C)		
Vapor Density	The highest known value is 4.9 (Air = 1) (Mineral Spirits).		
Volatility	<45% (v/v).		
Odor Threshold	Not available.		
Evaporation rate	Not available.		
Viscosity	Not available.	<u> </u>	
Water/Oil Dist. Coeff.	The product is more soluble in oil.		
Ionicity (in Water)	Not available.		
Dispersion Properties	Not available.		
Solubility	Soluble in mineral spirits.		
Physical Chemical Comments	Not available.		

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Section 10. Stabili	ty and Reactivity Data
Chemical Stability	The product is stable.
Conditions of Instability	No additional remark.
Incompatibility with various substances	None known.
Hazardous Decomposition Products	Not available.
Hazardous Polymerization	No.

Toxicity to Animals	Acute oral toxicity (LD50): 4300 mg/kg [Rat]. (Xylene).
Chronic Effects on Human	Not available.
Other Toxic Effects on Humans	Hazardous in case of skin contact (irritant), of eye contact (irritant), of inhalation. Slightly hazardous in case of ingestion.
Special Remarks on Toxicity to Animals	No additional remark.
Special Remarks on Chronic Effects on Humans	No additional remark.
Special Remarks on other Toxic Effects on Humans	No additional remark.

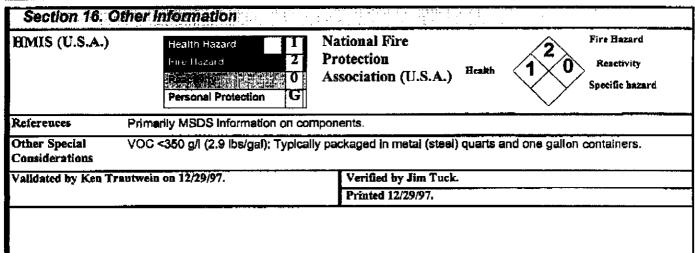
000000 12. 20010S	jical Information
Ecotoxicity	Not available.
BOD5 and COD	Not available.
Products of Biodegradation	Possibly hazardous short term degradation products are not likely.
Toxicity of the Products of Biodegradation	The products of degradation are less toxic than the product itself.
Special Remarks on the Products of Biodegradation	No additional remark.

Section 13. Disp	osal Considerations	
Waste information	Use product or recycle. Consult local or regional authorities.	
Waste stream	Consult local or regional authorities.	

DOT Classification	DOT CLASS 3; Combustible liquid with a flash point greater than 37.8°C (100°F). Not regulated for highway travel; Considered flammable for air or ocean transport. UN1263			
Proper Shipping Name	Paint			
DOT Identification Number	Not regulated for highway travel; Considered flammable for air or ocean transport. UN1263			
Packing Group	II			
Maritime transportation	Not available.			

Varathane® Liquid Plastic Exterior  Wood Finish® - Super Build Formula	
Hazardous Substances Reportable Quantity	' Not available.
Special Provisions for Transport	No additional remark.
TDG Classification	TDG CLASS 3: Flammable liquid.
ADR Classification	ADR CLASS: Flammable liquid D. Non-toxic and non-corrosive liquid with a flash point between 21°C (70°F) and 100°C (212°F).
IM(DG Classification	IMDG CLASS 3: Flammable liquid.
IATA Classification	IATA CLASS 3: Flammable lìquid.

Section 15. Regu	ilatory informati	tion and the control becomes a control amount point of a control of the first part of the control of the contro		
Federal and State Regulations	SARA 311/312 MSDS distribution - chemical inventory - hazard identification:			
secgulations	3-iodo-2-propynyl butyl carbamate;			
	SARA 313 toxic chemical notification and release reporting:  Xylene; 3-iodo-2-propynyl butyl carbamate; Ethylbenzene; Diethylene Glycol Monomethyl Ether; Manganese Compounds; Diethylene glycol monobutyl ether; Dipropylene glycol monomethyl ether; Glycol Ether;  CERCLA hazardous substances:			
!	3-iodo-2-propynyl butyl carbamate; Diethylene glycol monobutyl ether; Dipropylene glycol monomethyl ether: ; Glycol Ether;			
Other Classifications	WHMIS (Canada)	WHMIS CLASS B-3; Combustible liquid with a flash point between 37.8°C (100°F) and 93.3°C (200°F).		
		WHMIS CLASS D-2A: Material causing other toxic effects (VERY TOXIC). WHMIS CLASS D-2B: Material causing other toxic effects (TOXIC).		
	Canadian	CEPA DSL:		
	Regulatory Lists	Product(s): Xylene, Mineral Spirits		
	DSCL (EEC)	R10- Flammable. R18- in use, may form flammable/explosive vapor-air mixture.		
	International Regulatory Lists	No products were found.		



# Varathane® Liquid Plastic Exterior Wood Finish® - Super Build Formula Emergency phone:

800-255-3924

For Information Call:

800-635-3286

#### Notice to Reader

To the best of our knowledge, the information consisted herein is accurate. However, noting the above named supplier not any of its substitutes assumes any itability whomover for the accuracy or completeness of the information contained berein. Figur described herein and should be used with contain. Aithough contain are described herein, we cannot generate that these are the only hatlards that exist.

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